The Best of Live Jazz — Brought to You by JVC

JVC's Jazz Festivals are exciting events, but on a deeper level, they represent a time-honored tradition. For decades, JVC has been the chief sponsor behind some of the greatest celebrations of jazz — festivals such as the renowned Newport Jazz Festival, which celebrated its 50th anniversary in 2004. In that same year, the JVC Jazz Festival in New York celebrated its 20th anniversary with Dianne Reeves, Peter Cincotti, Ron Carter, and many other top artists on-hand. JVC is also a key sponsor of other major cultural events, such as the annual International Tokyo Video Festival.

JVC — we bring excitement and emotion to the world.

JVC JAZZ FESTIVAL NEWYORK

JVC JAZZ FESTIVAL NEWPORT,R.I.

Newport Jazz Festival is a registered service mark of George Wein and Festival Productions, Inc.
All musicians appearing on this page photographed at the 2004 JVC International Jazz Festivals.

Dianne Reeves

Ron Carter

Peter Cincotti

James Carter

Jamie Cullum

JVC Jazz Festival New York, Carnegie Hall

JVC TOKYO VIDEO FESTIVAL

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JVC®

The Perfect Experience

CAMCORDERS 2005

http://www.jvc.com

DIGITAL CyberCam™ Digital Video Camera

Mini DV NTSC

Digital **Media** Cameras

High-Definition Digital Video Camera

Digital Video Cameras

Compact VHS Camcorders

Accessories

Everio

DIGITAL **MEDIA** CAMERA

Every Occasion, Every Time, Every Memory

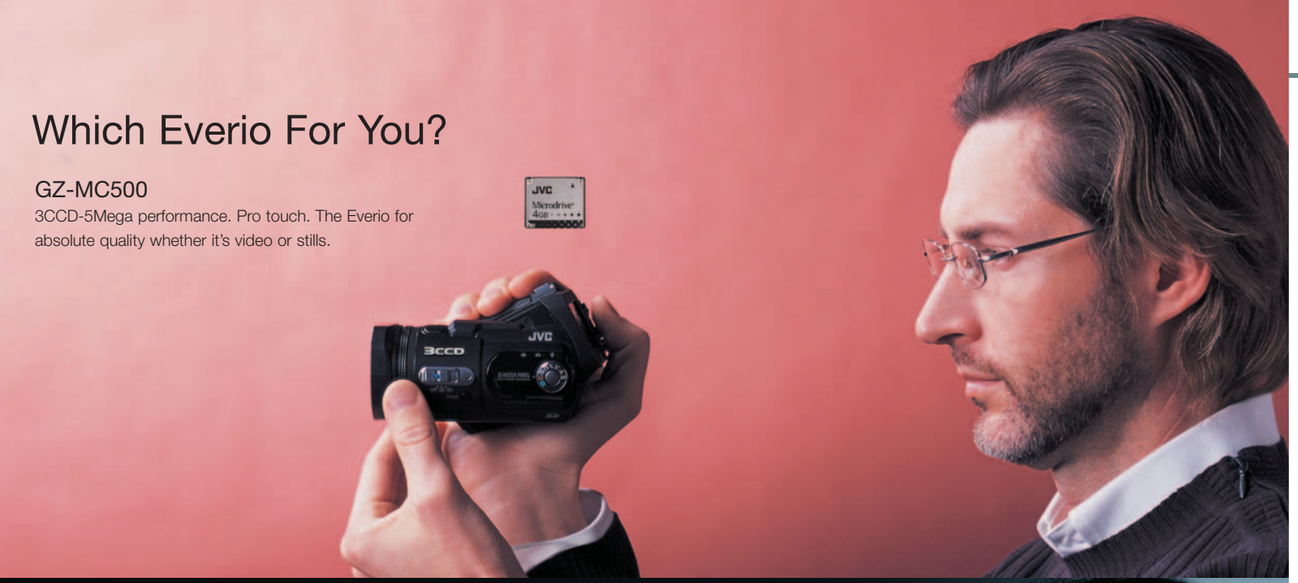
Whether it's a moving experience or a shining moment, capture it as DVD-quality MPEG-2 movies or photo-quality JPEG pictures, and turn every day's special events into lasting memories.

Hard Disk Camcorder

Which Everio For You?

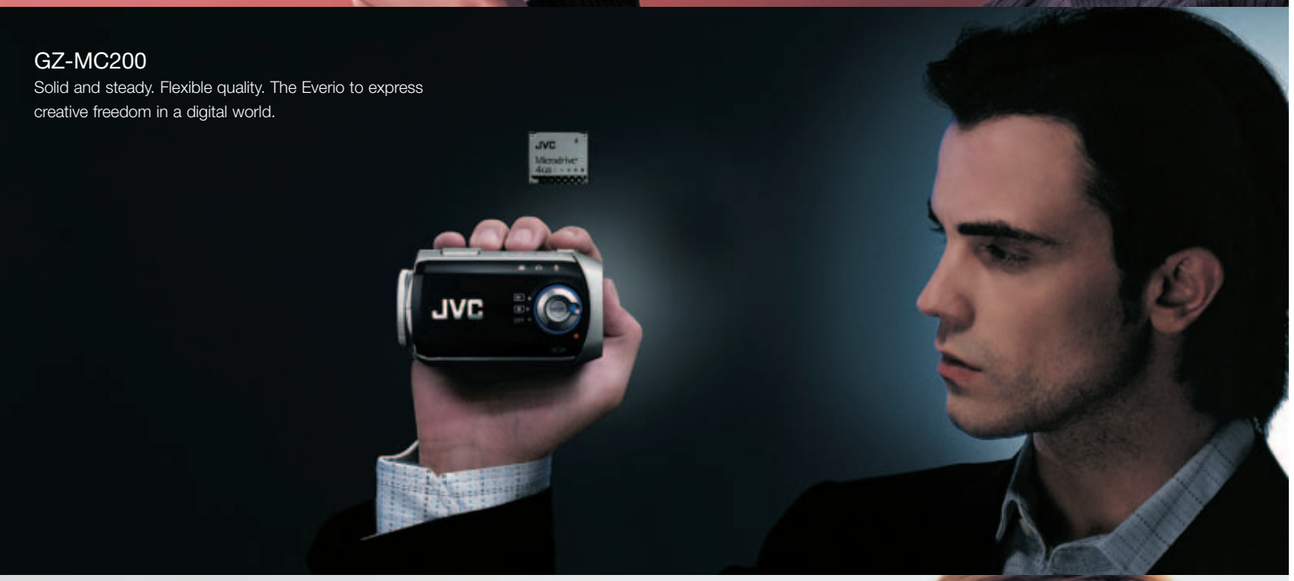
GZ-MC500

3CCD-5Mega performance. Pro touch. The Everio for absolute quality whether it's video or stills.



GZ-MC200

Solid and steady. Flexible quality. The Everio to express creative freedom in a digital world.



GZ-MC100

Stylishly compact. Casually active. The Everio for demanding digital quality and easy mobility.

High Quality Video and Still Images

3CCD-5Megapixel Performance (GZ-MC500)

3CCD+5MEGAPIXEL STILL PICTURE RECORDING

The GZ-MC500 creates sharp, vivid and pristine images by dedicating a 1.23 effective Megapixel CCD to each red, green and blue color. JVC's advanced prism optics and filterless 3CCD pixel shift technology quadruple the pixel count to record 5Megapixel class stills. (In video mode Everio uses 691,200 effective pixels for each RGB color). Thanks to the broader dynamic range, enjoy videos with truly realistic colors and digital stills with up to 2560 x 1920 image size for beautiful A4 prints. JVC optics use technology that assures high precision CCD registration with extreme accuracy on the order of one micron.

2.12 Megapixel CCD (GZ-MC200 / GZ-MC100)

The GZ-MC200 and GZ-MC100 are equipped with a 1/3.6" CCD with a total of 2.12 million pixels (effective: 1.23 million for moving pictures, 2 million for still pictures) for high quality digital videography and photography.

MPEG-2 High Quality Video Clips

Shoot up to 60 minutes in Video Camera mode of high quality MPEG-2 videos on the supplied 4GB Microdrive®. A selection of recording modes lets you choose more quality or more shooting time. The highest quality ULTRA mode records at a constant bit rate of 8.88 Mbps with Dolby Digital Audio* — comparable to the DVD (average 4 Mbps video/9.8 Mbps maximum) data rate — for essentially DVD quality with the same video and audio format as a movie DVD.

	ULTRA	FINE	NORM	ECO
Video bit rate**	8.5 Mbps	5.5 Mbps	4.2 Mbps	1.5 Mbps
Image size	720x480/60i			352x240/30p
Recording time	60 min.	90 min.	120 min.	300 min.

*Total Bit Rate (Video & Audio)
**Bit rate is fixed for ULTRA and FINE modes, variable for NORM and ECO modes.

Photo-Quality Digital Still Images

Select the picture quality and image size to match your needs, whether it's for photo printing, documents or e-mail attachments. Shoot thousands of pictures without worry thanks to the large-capacity storage.

		2560 x 1920	2048 x 1536	1600 x 1200	1280 x 960	1024 x 768	640 x 480
GZ-MC500	FINE	1800	4400	6900	8800	–	9999
	STD	2800	7300	9999	9999	–	9999
GZ-MC200	FINE	–	–	6900	8800	9999	9999
GZ-MC100	STD	–	–	9999	9999	9999	9999

Above figures are approximate as file size will differ according to type of subject.

Megabrid Engine

Megabrid

Applies separate, optimized processing to moving and still images, for videos with a high signal-to-noise ratio, and high-resolution still pictures.

Manual Focus Ring (GZ-MC500)

Allows manual adjustment and focus shifting with professional feel and precision.

Advanced Photo Functions (GZ-MC500)

Various functions to support your photographic talent include Auto Exposure Bracketing which automatically shoots 3 shots with sequential exposures of –1/3 f-stop, normal and +1/3 f-stop when you press the shutter, Backlight and Spotlight Compensation, as well as a Real-time Histogram Display to graphically show exposure distribution within the image you're shooting.

Program AE Dial for various exposure conditions (GZ-MC500)

Easily select from Twilight, Sports, Snow, Portrait, Shutter Priority, Aperture Priority, and Auto/Manual modes on the GZ-MC500 by a simple turn of the mode dial. (Certain modes accessible on GZ-MC200/MC100 via Menu selection.)

Multiple Advanced Interfaces

Store what you've shot on the provided Microdrive® card* or optional CompactFlash** or SD Memory Cards. Microdrive® is a hard disk drive that's the same size as a CompactFlash card, but with many Gigabytes of capacity. You can eject it, as you would a CompactFlash or SD Memory Card, and load data into your PC via optional card adapter. Also simply connect the camera via its USB2.0 interface for quick downloading to a PC. All transfer is digital-to-digital, so you won't lose any quality in the process.

*The Microdrive® card slot also accepts CompactFlash card.
**Only high-speed 40x or faster CF cards or 10Mbps SD cards supported for movies.

Microdrive®

SD Memory Card

USB2.0

PictBridge Support

Just connect the USB terminal and you can print directly from the camera to a compatible printer.

PictBridge

DVD Creation & Sharing

Three Advanced Applications Provided

● **Power Producer™** offers easy saving (authoring) of your video clips in any order to DVD, even right from a USB-connected camera, so you can share your original DVDs with anybody who owns a DVD player.

● **Power Director™ Express** offers feature-rich non-linear editing so you can flex your creative muscle with titles, effects, and even mix stills with videos.

● **Power DVD™** for easy video clip and DVD playback with Dolby Digital Audio.

Multi-Format Support

In addition to making it easy to create DVDs, the supplied Power Director™ Express converts to a variety of file formats for distribution via the Web or by e-mail. Supported formats include DV-AVI, Windows-AVI, MPEG-1 and MPEG-2, and QuickTime as well as Windows Media Video and RealVideo that can be streamed over the Internet.

GZ-MC500
Digital Media Camera

3CCD+5MEGAPIXEL STILL PICTURE RECORDING · Megabrid · 3D NR Noise Reduction · Microdrive® · SD · USB Terminal · USB 2.0 Hi-Speed USB Video Class · PictBridge · DV · DOLBY DIGITAL · 1.8"

- User-Friendly GUI for Easy Operation and Setting
- Thumbnail Picture for Easy & Quick Viewing
- 1.8" LCD Monitor
- 48kHz/16bit Stereo Voice Recorder Function (WAV)
- USB2.0 for High-Speed Transfer
- Easy Printing with PictBridge and DPOF Support

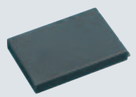
Key Features
- Three 1/4.5-inch 1.33 Megapixel CCDs for High-Quality Image Capture
- 5 Megapixel-Class Digital Still recording up to 2560 x 1920 pixels (JPEG)
- Manual Focus Ring for precision and creativity
- Built-in Pop-up Flash
- Advanced Photo Functions including Auto Exposure Bracketing and Real-time Histogram Display
- JVC Compact rotating grip design
- Weight 0.89 lbs (405 grams)* with Lens Hood, volume under 30 cubic inches (480 cubic centimeters)
- 4GB Microdrive® Removable Media Provided
- Microdrive®/CompactFlash card and SD Dual Card Slots for Extra Data Storage and Transfer
- High-Quality MPEG-2 Video Recording (up to 720 x 480/60i in ULTRA mode) with Dolby Digital Audio (MOD file)
- Megabrid Engine for Optimal Video and Still Quality
- 10x (8x for stills) Optical Zoom/200x Digital Zoom
- Super Hi-Rez JVC Lens

*Including battery, Microdrive®, lens cap and hand strap

Everio Exclusive Accessories

VU-VM10KIT Battery Kit contains an aluminum carrying case and rechargeable lithium-ion battery pack

AA-V200 Dual Battery Charger



BN-VM200 Rechargeable Lithium-ion Battery Pack (800mAh)

CB-VM20 Carrying Case holds camera and extra memory card

GZ-MC200
Digital Media Camera

2 Megapixel · Megabrid · Microdrive® · 3D NR Noise Reduction · SD · USB Terminal · USB 2.0 Hi-Speed USB Video Class · PictBridge · DV · DOLBY DIGITAL · 1.8"

- User-Friendly GUI for Easy Operation and Setting
- Thumbnail Picture for Easy & Quick Viewing
- 1.8" LCD Monitor
- Built-in Auto Flash
- 48kHz/16bit Stereo Voice Recorder Function (WAV)
- USB2.0 for High-Speed Transfer
- Easy Printing with PictBridge and DPOF Support

Key Features
- JVC Compact rotating grip design
- Weight 0.78 lbs (355 grams)*, volume under 25 cubic inches (400 cubic centimeters)
- 4GB Microdrive® Removable Media Provided
- Microdrive®/CompactFlash card and SD Dual Card Slots for Extra Data Storage and Transfer
- 1/3.6-inch 2.12 Megapixel CCD for High-Quality Image Capture
- High-Quality MPEG-2 Video Recording (up to 720 x 480/60i in ULTRA mode) with Dolby Digital Audio (MOD file)
- High-Quality Digital Still Shooting with up to 1600 x 1200 pixels (JPEG)
- Megabrid Engine for Optimal Video and Still Quality
- 10x Optical Zoom/200x Digital Zoom
- Super Hi-Rez JVC Lens

*Including battery, Microdrive®, lens cap and hand strap

GZ-MC100
Digital Media Camera

2 Megapixel · Megabrid · Microdrive® · 3D NR Noise Reduction · SD · USB Terminal · USB 2.0 Hi-Speed USB Video Class · PictBridge · DV · DOLBY DIGITAL · 1.8"

- User-Friendly GUI for Easy Operation and Setting
- Thumbnail Picture for Easy & Quick Viewing
- 1.8" LCD Monitor
- Built-in Auto Flash
- 48kHz/16bit Stereo Voice Recorder Function (WAV)
- USB2.0 for High-Speed Transfer
- Easy Printing with PictBridge and DPOF Support

Key Features
- Super convenient flat design
- Weight 0.69 lbs (315 grams)*, volume under 19 cubic inches (300 cubic centimeters)
- 4GB Microdrive® Removable Media Provided
- Microdrive®/CompactFlash card and SD Dual Card Slots for Extra Data Storage and Transfer
- 1/3.6-inch 2.12 Megapixel CCD for High-Quality Image Capture
- High-Quality MPEG-2 Video Recording (up to 720 x 480/60i in ULTRA mode) with Dolby Digital Audio (MOD file)
- High-Quality Digital Still Shooting with up to 1600 x 1200 pixels (JPEG)
- Megabrid Engine for Optimal Video and Still Quality
- 10x Optical Zoom/200x Digital Zoom
- Super Hi-Rez JVC Lens

*Including battery, Microdrive®, lens cap and hand strap

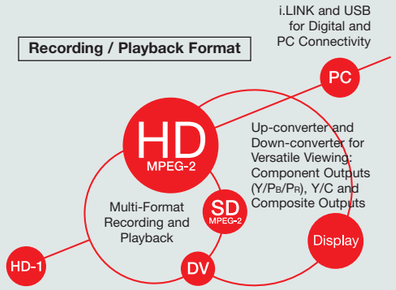
Unprecedented Video Power and Picture Quality! 720p HD

Create your own unprecedented footage with incredible picture quality using this consumer camcorder which can record and play back 1280x720/30p digital high-definition and 480p progressive wide images using MiniDV tape. This picture quality and resolution is peerless for a camcorder in this price range.

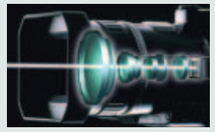
Versatile Recording including 720p HD

Breath taking visual dynamism and flexibility

MODE	FORMAT	ASPECT RATIO
720/30p	MPEG-2	16:9
480/60p	MPEG-2	16:9
480/60i	DV	4:3/16:9

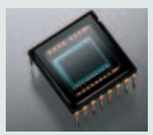


Hi-Def F1.8 – F1.9 Optically Stabilized Zoom Lens



With almost no variance in brightness, from F1.8 at full wide to F1.9 at full telephoto, it is able to offer the fundamental image-gathering performance a Hi-Def system requires. High-precision multi-coated all glass optics ensure low-distortion, ghost-free images as well as high edge-to-edge brightness and color purity across the entire zoom range. Performance is supported by on-demand Optical Image Stabilization. Enthusiasts can take full control wih manual focusing and zoom rings on the lens barrel.

1/3” 1.18 Megapixel Progressive Scan CCD



Offering a wide array and progressive scanning to sample the entire picture at once, this CCD has an uncanny ability to capture detailed images without interline motion blur resulting from interlace scanning. Moreover, its high color purity and discrete reproduction allows you to see full detail without being obscured by low-resolution color smearing.

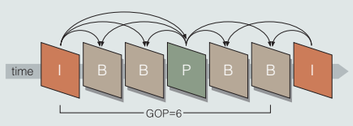
Hybrid Complementary-Primary Digital Color Filter

This system developed by JVC employs a filter matrix overlaying the CCD’s picture elements including two complementary colors Yellow and Cyan (Ye and Cy), one primary color Green (Gr), and clear. Shifting one pixel at a time across the CCD and combining these together in pairs for brightness and blocks of four for color delivers maximum resolution. This system’s superior ability to sample both Y Luminance and RGB Chroma information results in color performance nearly identical to using three CCDs, proving that it is possible to deliver Hi-Def performance with a single CCD.

Y (Luminance) information is obtained from pairs of picture elements:	C (Chroma) information is generated by combining blocks of four picture elements:
Yodd= (W+G)=(R+2G+B) Yeven= (Cy+Ye)=((G+B)+(R+G))=(R+2G+B)	R=(W+Ye)-(G+Cy) G=(G+Cy+Ye)-W B=(W+Cy)-(G+Ye)

Hi-Def MPEG-2 on MiniDV Cassette (HDV)

Another remarkable aspect of this video camera is that it records 60 minutes of HD signals on conventional MiniDV cassette. The benefits are obvious: MiniDV cassettes, “the defacto standard” are widely available and affordable compared to other formats used in professional systems, and by using a common cassette mechanism with DV, it was possible for the GR-HD1 to offer regular DV recording as well. This was made possible since the “Hi-Def MPEG-2 on MiniDV” HDV encoder and decoder developed by JVC together with NTT records Hi-Def Component MPEG2-TS signals in the same track format as DV.



While the picture is encoded one frame at a time for DV, the time axis is encoded as well for MPEG-2, conforming to the HD Digital VCR Conference’s Part 7 (DVB) and Part 8 (ATV) standards. The GR-HD1 uses a GOP (Group Of Pictures) of 6 for HD and 12 for SD, with a frame order of IBBPBB. The “I frame” is a complete frame without reference to any past or future frames; the “P frame” is encoded relative to the past reference frame; and the “B frame” is encoded relative to the past reference frame, future reference frame, or both.

Pro Performance in Style

The GR-HD1 was designed with the ergonomic expertise and innovative flair that makes it a uniquely comfortable unit to operate. Case in point: the Rotating Grip lets you transition from a high to low angle shot without removing your hand from the grip or taking your eyes off the action. Find that most comfortable and stable shooting position. Get excellent footage in places and angles that bulkier cameras just won’t allow.

Non-Linear Editing Creativity

The provided MPEG Edit Studio™ Pro LE software allows frame-accurate MPEG-2 editing with intuitive drag-and-drop operation. Video and audio can be edited separately, and combined from different clips. And thanks to the edit spooler function, edits can be done in the background, freeing up you and your computer for other jobs and letting you use your time more efficiently. Editing of both HD and SD material is possible, so you can export edited HD videos back to the GR-HD1 or to a JVC HM-DT100, HM-DH5, HM-DH40000 and HM-DH30000 Digital HDTV Video Recorder in native MPEG2-TS Hi-Def format, as well as convert edited HD videos to NTSC MPEG2-PS for authoring to DVD using the provided ImageMixer DVD software.

MPEG Edit Studio™ Pro 1.0 LE

Hi-Def Capture

ImageMixer DVD

HD High-Definition

GR-HD1

High-Definition Digital Video Camera

HDV · MiniDV NTSC · USB Terminal · SD · i.LINK · HDCyberCam · Web Camera Function · DVC · 3.5"

- HD Recording Mode 720/30p 16:9
- SD Recording Mode 480/60p 16:9
- DV Recording Mode 480/60i 4:3/16:9
- Hi-Def F1.8-F1.9 Optically Stabilized Zoom Lens
- 1/3-inch 1.18 Megapixel Progressive Scan CCD with Hybrid Complementary-Primary Digital Filter
- Hi-Def MPEG-2 on MiniDV Cassette (HDV)
- Multi-Format Recording and Playback: HD/SD/DV
- Rotating Grip
- Up-converted 1080i Output
- Component (Y/PB/PR), Y/C, Composite, i.LINK interfaces
- HG Digital Stills with Selectable Image Size Setting: 640 x 480 (VGA), 848 x 480 (16:9), 1280 x 720 (Panorama), 1280 x 960 (Megapixel)
- Frame-Accurate Non-Linear Editing and DVD Authoring Software
- Manual Focus & Zoom Rings
- Removable Carrying Handle and Accessory Shoes
- Manual/Auto Shutter Speeds, Iris, White Balance
- Manual Exposure, Back Light Compensation and Program AE
- MPEG-1 Layer2 16bit Digital Stereo Audio (MPEG-2 mode)/PCM Digital 2 or 4 channel Audio (DV mode)
- USB PC Interface
- Web Camera Function
- Component output, and S-Video, composite and audio inputs/outputs

HD High-Definition

CU-VH1

High-Definition Portable Digital Player/Recorder

MiniDV NTSC · USB Terminal · SD · i.LINK · 3.5"

- Multi-format playback capability with the GR-HD1
- Built-in SD/MMC card slot
- Playback up/down conversion
- Digital recording
  - To and from video equipment via i.LINK
  - To and from a personal computer
  - To or from NTSC VCRs or video
  - To an SD memory card
- Navigation search
- On-screen time code or day and date subcode, and on-screen menu setting
- DV mode playback
- 3.5-inch LCD monitor and external speaker
- 2-way power supply
- i.LINK IEEE 1394 and USB input/output
- Component output and S-video, composite and audio inputs/outputs

High Performance in a Compact Design

Offering high performance and superb picture quality, JVC digital video cameras combine compact design with user-friendly features. The advanced functions unique to JVC make shooting video all the more enjoyable

High Quality Picture and Sound

1/4.5-inch 3-CCD Camera with the Industry's First 5 Megapixel Still Picture Recording

(as of Dec.2004)

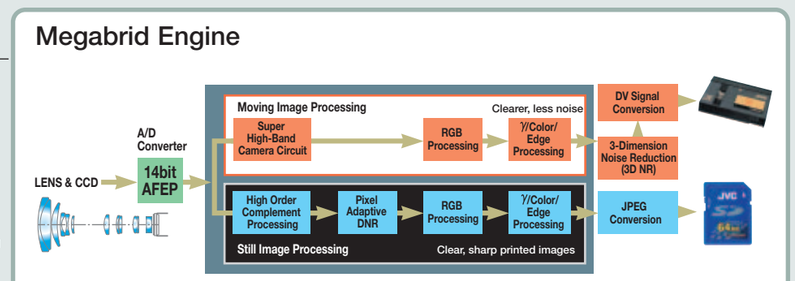
The GR-X5 creates sharp, vivid and pristine images by dedicating a 1.23 effective Megapixel CCD to each red, green and blue color. JVC's advanced prism optics and filterless 3CCD pixel shift technology quadruple the pixel count to record 5Megapixel class stills. Thanks to the broader dynamic range, enjoy videos with truly realistic colors and digital stills with up to 2560 x 1920 image size for beautiful A4 prints. JVC optics use technology that assures high precision CCD registration with extreme accuracy on the order of one micron.

3CCD+5MEGAPIXEL STILL PICTURE RECORDING

Megabrid

Megabrid Engine

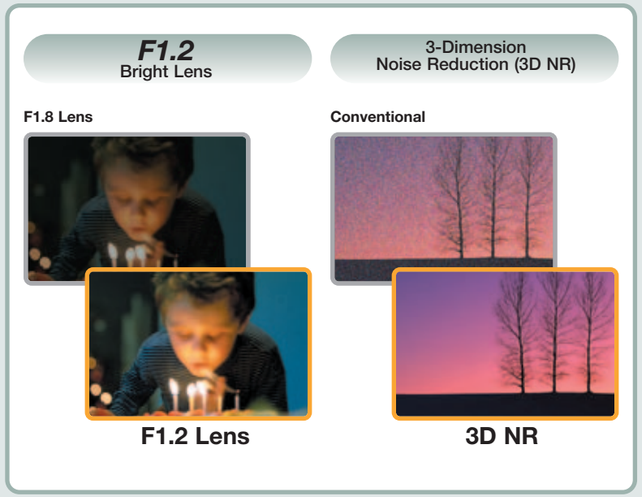
The Megabrid Engine applies separate, optimized processing to moving and still images to reproduce both with excellent quality. Using this technology, video images have a high sensitivity and high signal-to-noise ratio, even in low light. In addition, the high resolution still images are crisp and clear, allowing for beautiful quality prints. RGB based processing assures more rich and realistic color reproduction.



Low Light Plus

JVC's latest picture quality improvement technology using F1.2 bright lens and 3-Dimension Noise Reduction (3D NR) is called "Low Light Plus". This reflects the idea that JVC focuses on picture quality and superb color reproduction even in low light environments. Taking advantage of the technologies shown below, Low Light Plus allows you to obtain high-grade picture quality even indoors or in other dark environments.

- **F1.2 Bright Lens:** F1.2 Super Bright Lens
  Allows the camera to obtain twice the light of an F1.8 lens, assuring a bright picture with less noise, even in low light.
- **3-Dimension Noise Reduction (3D NR):** 3D NR Noise Reduction
  Reduces video noise by 30% (2 dB), and improves picture quality. Especially effective during low light shooting.



New Ways to Enjoy Video

25x Optical Zoom with 800x Digital Zoom

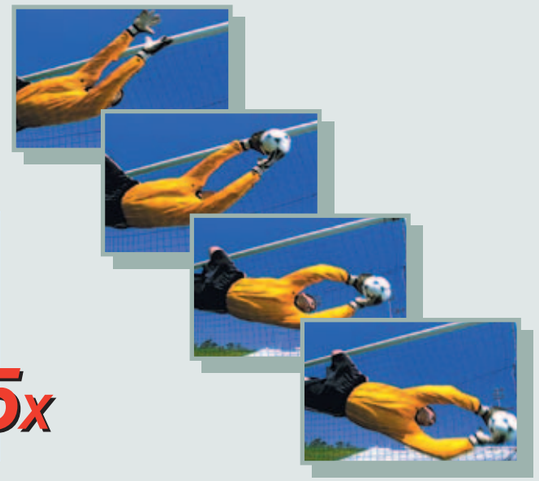
25x Optical ZOOM

With the powerful 25x zoom, an image is enlarged 25 times without jagged edges. Images can be further enlarged up to 800x when combined with the digital zoom.

Live Slow

LIVE SLOW

This easy to use feature is extremely useful for playing back precious or hard-to-see moments at a slow speed. Slow motion images are recorded with sound on a DVC tape and played back in real time sound. In addition, even footage shot at normal speed can be played back with the slow motion effect. In this way precious moments become all the more enjoyable.

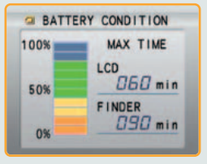


Helpful & Convenient Functions

Data Battery

Data Battery

Remaining battery and recording time can be easily viewed, by simply touching one button, even with the power turned off. This allows you to check what remains for both the battery and recording time before shooting, so you can prevent the battery from running out during shooting. The remaining recording time is calculated using the LCD or Viewfinder for recording.



The display is slightly different for the GR-DF430/GR-D250.

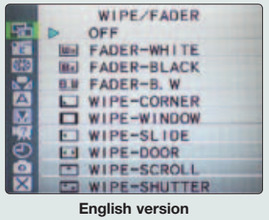
This product includes patented and other proprietary technology and will operate only with JVC Data Battery.

Multi-Language On-Screen

Multi-Language OSD

You can choose the language used for menu settings and camera operations, making the camera much easier to operate.

GR-X5	English/Spanish/French/Portuguese/T-Chinese/Korean
GR-DF550 GR-DF450	English/Spanish/French/ Portuguese/T-Chinese/Korean
GR-D295 GR-D270	English/Spanish/French/T-Chinese
GR-DF430 GR-D250	English/Spanish



English version

French version

Spanish version

Helpful & Convenient Functions

2.5” Clear LCD Monitor

Clear LCD Monitor

Cuts surface reflection and glare to maintain a clear, visible, bright view during outdoor recording.

Conventional **Clear LCD Monitor**

Power-Linked Operation

Automatically turns on the camera when you open the LCD or pull out the viewfinder.

Off

On

Built-in Auto Illumi. Light

Brightens up your subject in low light situations using energy-efficient LEDs to reduce battery drain. The camera will automatically turn off in bright environments so energy isn’t wasted.

DV Navigation

When you shoot video, an index picture and counter information are stored on the memory card. So, to watch your video footage, just call up the navigation facility, and choose whichever scenes you want to see. The camera will automatically find your desired scene.

NightAlive

Low Light Shot Technology NightAlive

Boosts light sensitivity for a bright picture even in environments with minimal illumination*, always giving you full color, without any distance limitations. NightAlive will work in both still and video modes.

** JVC’s NightAlive combines digital slow shutter and image processing technology. With rapidly moving subject, image trails may be displayed.*

Off

On

Color Viewfinder

The high density color LCD provides a clear natural looking image.

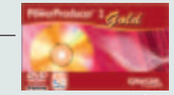
PC–friendly Functions

USB Video Class

High-quality video image capturing (DV signals) via USB cable for PC without the need for an IEEE 1394 connection.

DVD/Video CD Creation with the provided software “CyberLink DVD Solution”

In addition to VCD burning, one-touch DVD burning is possible, allowing you to easily create a DVD/VCD of your high quality images. Now easily view your movies.



PowerProducer™ 2 Gold

PowerDirector™3

GR-X5 High-Band 3-CCD Digital Video Camera

This new generation 3-CCD digital video camera has a compact and prosumer design, giving the user the same feeling of a single-lens reflex camera. The industry's first* MiniDV camcorder 5-Megapixel still picture recording camera comes with a comfortable compact design for effortless shooting, especially for stills, and 2.5-inch Dynamic Backlight LCD Monitor for a super clear and bright view.

** as of Dec. 2004*

3CCD+5MEGAPIXEL STILL PICTURE RECORDING

GR-X5
High-Band 3-CCD Digital Video Camera

Compact 3-CCD DVC, with NEW Design and Comfortable Grip, That Can Take 5 Megapixel Digital Stills

Mini DV NTSC · USB Terminal · SD · i · PictBridge · Megabrid · Data Battery · 3D NR Noise Reduction · Web Camera Function · DSC · 2.5" · Dynamic Backlight LCD Monitor

- 1/4.5-inch 3-CCD each with 1.33 Megapixel (Number of effective pixels: 690,000 pixels for moving pictures, 1.23 Megapixels for stills)
- Newly-developed High Precision F1.8 Lens
- 10x Optical Zoom (Still: 8x)/300x Digital Zoom
- 540 Lines of Resolution • 2.5" LCD • DV In/Out
- Analog Inpu • Mic Terminal (plug-in power)
- 32MB SD Card
- HG 5 Megapixel Digital Still Pictures (2560x1920-pixel, max.)

- New 3-CCD High-Performance Camera System
- Megabrid Engine for Optimal Video and Still Quality
- 3-Dimension Noise Reduction (3D NR)
- 2.5" Dynamic Backlight LCD Monitor
- Built-in Auto Flash
- DVD/Video CD Creation (via IEEE 1394)
- Web-Camera Function (via IEEE 1394)
- Digital Still Capture (via IEEE 1394)
- Data Battery
- NightAlive
- Interval Snapshot
- Power-Linked Operation
- Multi-Language On-Screen (English/Spanish/French/Portuguese/ T-Chinese/Korean)
- Program AE
- PictBridge
- 16:9 Wide Screen Mode

Experience

DVD Recorders from JVC

A perfect companion product for your new JVC camcorder is a matching JVC DVD recorder. MiniDV is the ideal camcorder format, but eventually you may want to transfer your best material to DVD. Not only is DVD ideal for archiving—the near universal acceptance of DVD makes it the most convenient way to share your recordings with others.

An i-Link connection makes copying digital camcorder tapes extremely simple, and the JVC remote will control your camcorder for easy editing. If you make a disc and later decide you aren't completely satisfied with the results, it's also easy to go back and edit further, or even rearrange the order of the scenes on the disc you made. With an all digital connection, this is the perfect way to make your memories last and last.

JVC even offers a DVD recorder with built-in MiniDV drive for the ultimate in editing convenience!

JVC's exclusive bit rate optimizer varies the bit rate based on the complexity of the scene for higher quality recordings with longer recording time on the hard drive. Our 160 GB hard drive can store up to 300 hours of your favorite programming. Then, select the programs you want to archive permanently and copy them to DVD at up to 64X normal speed. That means a one hour program can be copied to DVD in less than one minute!

Select DVD recorder/hard drive combo recorders feature TV Guide On-Screen. This user friendly on-screen listing is the perfect way to see what is on TV, and making recordings from the guide is just a matter of point and click.

JVC blends advanced technology with ease of operation better than anyone. The new DVD/VHS combo recorder features "One Touch Expert Dub" which scans the VHS tape, determines the perfect DVD recording speed, eliminates any blank spots on the tape, and builds a thumbnail image for each recording on the DVD index. Wow!

JVC DVD recorders can play back any recordable disc format you might have. For recording purposes, they are compatible with the most popular formats: DVD-R, DVD-RW and DVD-RAM. You get up to 8 hours recording on a single disc. Choose JVC's standard DVD recorder or a combo unit with either VHS or HDD. For the ultimate in flexibility choose a triple play model with DVD, HDD and either VHS or MiniDV.

JVC DR-DX7S
HDD/DVD/MiniDV Video Recorder Combo

TV Guide On-Screen

TV GUIDE™

GR-DZ7
High-Band Digital Video Camera

2.12 Megapixel DVC with Megabrid Engine and High Precision Lens

- 1/3.6-inch 2.12 Megapixel CCD (Number of effective pixels: 1.23 Megapixels for moving pictures, 2 Megapixels for stills)
- Newly-developed High Precision F1.8 Lens
- 10x Optical Zoom/300x Digital Zoom
- 540 Lines of Resolution
- 2.5" LCD • Color Viewfinder
- DV In/Out • Analog Input
- 8 MB SD Card • HG Digital Stills (1600x1200-pixel, max.)

- Hi-Res Lens
- Megabrid Engine for optimal video and still quality
- 3-Dimension Noise Reduction (3D NR)
- Clear LCD Monitor
- USB Video Class
- DVD Creation
- MPEG-4 Email Video Clips
- Web-Camera Function (via IEEE 1394)
- Digital Still Capture

- DV Navigation
- NightAlive
- Interval Snapshot
- Built-in Auto Flash
- Power-Linked Operation

Experience

TV (Card Slot) from JVC

When shopping for a camcorder, the most important factor for most people is picture quality. JVC understands this — both when it comes to camcorder design and when creating perfect television displays to replay those cherished memories.

JVC's new line of high definition televisions reflects that emphasis on picture quality. We offer a wide variety of technologies with one goal in common: the absolute best picture possible. Whether you choose an HD-ILA rear projection display, LCD, Plasma or a traditional CRT, you'll benefit from JVC's many years of experience, dating back to the introduction of Japan's first televisions in 1939.

Most new JVC HDTV models are powered by the next generation JVC exclusive D.I.S.T. (Digital Image Scaling Technology), which uses JVC's new 32 bit GENESSA chip.

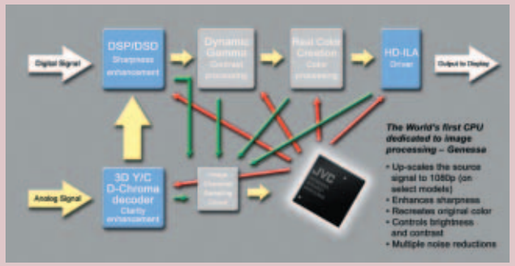
This single chip provides optimum scaling of any input signal to your LCD or Plasma display. The picture fits perfectly, with the highest possible resolution. Also part of D.I.S.T. are 5-Point Color Management and Dynamic Gamma Control. The new 5-Point Color Management insures perfect color, even with skin tones, while Dynamic Gamma makes sure the grayscale is correct and that detail is maintained in the darker/shadow portions of the picture. There are also a variety of other noise reduction and picture enhancement technologies. Combined, these technologies insure that you see the best possible results from your new JVC camcorder.

For added convenience, select JVC HD-ILA TV models offer a memory card slot, providing a perfect solution to view digital still images you've created with your new camcorder. In addition to SD and MMC, Compact Flash, XD, Memory Stick and Microdrive® formats are supported.

Since JVC's new Everio Digital Media Cameras utilize a removable hard disc Microdrive®, the TV's memory card slot offers an additional benefit. In addition to its capacity to hold more than 9,999 Two Megapixel Digital Stills, the 4GB Microdrive® has the capacity for 60 minutes of video with Mini DV picture quality or 90 minutes of video with DVD camcorder quality.

The Everio Microdrive® slides directly into the Memory Card slot for the easiest possible playback of both video and digital stills. It offers instant access to any recorded scene with no need for fast forward or rewind and it is simple to change the order of scenes for playback via the convenient menu-style "play list" function.

GENESSA D.I.S.T.



Genessa CPU Diagram

DF-Series Digital Video Cameras

In addition to unique Live Slow function, the compact and low-cut design DF-series features Low Light Plus, 15x optical zoom and more, adding new potential to your video repertoire.

GR-DF550
High-Band Digital Video Camera

1.33 Megapixel DVC with 15x Optical Zoom and Live Slow

- 1/4.5-inch 1.33 Megapixel
- F1.2 Super Bright Lens
- 15x Optical Zoom/700x Digital Zoom
- 540 Lines of Resolution
- 2.5" LCD
- Color Viewfinder
- DV In/Out
- Analog Input
- Mic Terminal (plug-in power)
- HG Digital Stills (1600x1200-pixel, max.)

- Low Light Plus : New F1.2 Super Bright Lens and 3-Dimension Noise Reduction (3D NR)
- 15x Powerful Optical Zoom
- EZ Grip Design
- Live Slow
- Megabrid Engine for Optimal Video and Still Quality
- Clear LCD Monitor
- Auto Illumi. Light (Auto Illumination Light)
- MPEG-4 Email Video Clips
- Web-Camera Function (via IEEE 1394)
- Digital Still Capture
- Data Battery
- DV Navigation
- NightAlive
- Power-Linked Operation
- Multi-Language On-Screen (6-language)
- Cold Shoe for Accessories

GR-DF450
High-Band Digital Video Camera

Versatile F1.2 DVC with Live Slow and 15x Optical Zoom

- 1/6-inch 680,000 pixel CCD
- F1.2 Super Bright Lens
- 15x Optical Zoom/700x Digital Zoom
- 520 Lines of Resolution
- 2.5" LCD • Color Viewfinder
- DV In/Out • Analog Input
- Mic Terminal (plug-in power)
- HG Digital Stills (1024x768-pixel, max.)

- Low Light Plus : New F1.2 Super Bright Lens and 3-Dimension Noise Reduction (3D NR)
- 15x Powerful Optical Zoom
- EZ Grip Design
- Live Slow for Slow Motion Effect with Real Time Sound
- Clear LCD Monitor
- Auto Illumi. Light (Auto Illumination Light)
- MPEG-4 Email Video Clips
- Web-Camera Function (via IEEE 1394)
- Digital Still Capture
- Data Battery
- DV Navigation
- NightAlive
- Power-Linked Operation
- Multi-Language On-Screen (6-language)
- Cold Shoe for Accessories

GR-DF430
High-Band Digital Video Camera

Basic F1.2 DVC with 15x Optical Zoom

- 1/6-inch 680,000 pixel CCD
- F1.2 Super Bright Lens
- 15x Optical Zoom/700x Digital Zoom
- 520 Lines of Resolution • 2.5" LCD
- Color Viewfinder • DV In/Out
- Analog Input
- Mic Terminal (plug-in power)

- Low Light Plus : New F1.2 Super Bright Lens and 3-Dimension Noise Reduction (3D NR)
- 15x Powerful Optical Zoom
- EZ Grip Design
- Clear LCD Monitor for clear, visible, bright view during outdoor shooting
- Auto Illumi. Light (Auto Illumination Light)
- Web-Camera Function (via IEEE 1394)
- Data Battery allows the user to check remaining battery and recording time by simply touching one button even with the power turned off
- NightAlive
- Power-Linked Operation
- 2 Languages On-Screen (English/Spanish)
- Cold Shoe for Accessories

D-Series Digital Video Cameras

With new 25x Optical Zoom and Live Slow functions the JVC D-series adds fresh ways for you to enjoy the video experience. Expand your horizons with these inventive, easy-to-use digital video cameras.

GZ-D295

High-Band Digital Video Camera

Slim & Compact DVC with Live Slow and 25x Optical Zoom

- 1/6-inch 680,000 pixel CCD • F1.8 - 3.2
- 25x Optical Zoom/800x Digital Zoom • 520 Lines of Resolution
- 2.5" LCD • Color Viewfinder
- DV In/Out • HG Digital Stills (1024x768-pixel, max.)

- Powerful Optical Zoom (25x)
- 800x Digital Zoom
- Live Slow
- Clear LCD Monitor
- Color Viewfinder
- Auto Illumi. Light (Auto Illumination Light)
- Web-Camera Function (via IEEE 1394)
- Digital Still Capture
- Data Battery
- Two Battery Packs Provided
- HG Digital Stills
- 1024 x 768-pixel
- SD/MMC Card Slot
- USB Output
- NightAlive
- Power-Linked Operation
- Multi-Language On-Screen (4-Language)
- Full Function Remote Control
- Software Included

GR-D270

High-Band Digital Video Camera

Slim & Compact DVC with Live Slow and 25x Optical Zoom

- 1/6-inch 680,000 pixel CCD • F1.8 - 3.2
- 25x Optical Zoom/800x Digital Zoom • 520 Lines of Resolution
- 2.5" LCD • Color Viewfinder • DV In/Out
- HG Digital Stills (1024x768-pixel, max.)

- Powerful Optical Zoom (25x) • 800x Digital Zoom
- Live Slow for slow motion effect with real time sound • Clear LCD Monitor
- Color Viewfinder • HG Digital Stills (1024 x 768) • SD/MMC Card Slot
- Auto Illumi. Light (Auto Illumination Light)
- Web-Camera Function (via IEEE 1394) • Digital Still Capture
- Data Battery allows the user to check remaining battery and recording time by simply touching one button even with the power turned off
- NightAlive • Power-Linked Operation
- Multi-Language On-Screen (4-Language) • Software Included

GR-D250

High-Band Digital Video Camera

Slim & Compact DVC with 25x Optical Zoom

- 1/6-inch 680,000 pixel CCD • F1.8 -3.2
- 25x Optical Zoom/800x Digital Zoom
- 520 Lines of Resolution • 2.5" LCD
- Color Viewfinder • DV In/Out

- Powerful Optical Zoom (25x) • 800x Digital Zoom
- Clear LCD Monitor for a clear, visible, bright view during outdoor shooting
- Color Viewfinder • Web-Camera Function (via IEEE 1394)
- Data Battery allows the user to check remaining battery and recording time by simply touching one button even with the power turned off
- NightAlive for a bright picture even in environments with minimal illumination
- Power-Linked Operation
- 2 Languages On-Screen (English/Spanish)

GR-SXM37

Compact Super VHS Camcorder

Super VHS and Super VHS ET with 25x Optical Zoom and 1000x Digital Zoom

- Super VHS and "Super VHS ET" • 2.5" LCD Color Monitor
- Viewfinder • 25x Optical Zoom/1000x Digital Hyper Zoom
- 320,000-pixel CCD

- Powerful Optical Zoom (25x) • 1000x Digital Hyper Zoom
- Super VHS and Super VHS ET Recording
- Digital Picture Improvement Technology
  - Super High-Band Processor
  - Picture Stabilizer
  - Digital TBC (Time Base Corrector)
  - Digital CNR (Chroma Noise Reduction)
- 108 Combinations of Digital Special Effects (11x) and Scene Transitions (10x)
- Auto Illumi. Light (Auto Illumination Light)
- Multi-Language Instant Titles (4 Languages)
- Manual Focus • Flying Erase Head
- Built-in Battery Charger • Easy VHS DECK Playback included

GR-AXM17

Compact VHS Camcorder

Slim and Stylish Design with 20x Optical Zoom

- 2.5" LCD Color Monitor • Viewfinder
- 20x Optical Zoom/800x Digital Hyper Zoom • 320,000-pixel CCD

- 20x Optical Zoom • 800x Digital Hyper Zoom
- Digital Picture Improvement Technology
  - Picture Stabilizer
  - Digital TBC (Time Base Corrector)
  - Digital CNR (Chroma Noise Reduction)
- 108 Combinations of Digital Special Effects (11x) and Scene Transitions (10x)
- Multi-Language Instant Titles (4 Languages)
- Manual Focus
- Flying Erase Head
- Built-in Battery Charger
- Easy VHS DECK Playback included

Optional Accessories for Compact VHS Camcorders

BT-KIT1
Battery Kit

VU-BT20K1/3
Battery Kit
Includes:
BN-V20 Battery
EC-45SX
Compact VHS
cassette (45 min.)

AA-V15*
AC Power Adapter/Battery Charger

AP-V10/11/12/
13/14/15
(Provided with camera)
AC Adapter

BN-V12/20/22/25
Battery Pack

BN-V400B
High-Capacity Battery Pack

C-P8
Cassette Adapter

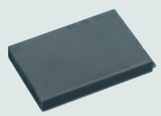
CB-V75
Carrying Bag

** Only functions as a charger. For AC adapter function, use the adapter provided with the camera.*

GZ-MC500/GZ-MC200/GZ-MC100 Digital Media Cameras

VU-VM10KIT Battery Kit
contains an aluminum carrying case and rechargeable lithium-ion battery pack

AA-V200
Dual Battery Charger



BN-VM200 Rechargeable Lithium-ion Battery Pack
(800mAh)

CB-VM20 Carrying Case
holds camera and extra memory card

GR-HD1 High-Definition Digital Video Camera

- **VU-A100KIT Accessory kit**
- **CB-A110 Hard case**
- **WR-HD1 Marine case**
- **BN-V428 High-capacity battery** 2800 mAh
- **VC-VDV204/VDV206 DV cables**
- **VCU-ASD032/ASD064 32 and 64 MB SD memory cards**
- **CU-A80SD Dual interface memory card adapter**
- **VU-VCKIT1D Cleaning kit**

VU-A100KIT

CB-A110

WR-HD1

CU-ASD064

CU-VH1 High-Definition Portable Digital Player/Recorder

- **BN-416 Battery** (1-hour 30-minute)
- **BN-428 Battery** (2-hour 50-minute)
- **VU-V840KIT Belt holder battery kit** (4-hour)
- **VU-V856KIT Belt holder battery kit** (5-hour 40-minute)
- **VC-VDV204 (S400 4-pin, 2-meter) DV cable**
- **CB-V720 System carrying bag**
- **CB-V66 System carrying bag**
- **CB-V88 System carrying bag**

Digital Video Cameras

Optional Accessories	GR-DZ7	GR-D series	GR-DF series	GR-X5
Kit	***VU-A307KIT*** Starter Kit ***VU-VCKIT1D*** Cleaning Kit ***VU-A773KIT*** Accessory Kit			
		VU-AF70KIT Starter Kit ***VU-AF71KIT*** Starter Kit		
	BT-V408K1 Battery Kit ***BT-A208K2*** Battery Kit ***VU-A207KIT*** Starter Kit ***VU-A208KIT*** Starter Kit ***VU-A308KIT*** Starter Kit ***VU-A316KIT*** Starter Kit ***VU-A222KIT*** Starter Kit ***VU-A228KIT*** Starter Kit	***LN-KIT1D*** Lens Kit** ***GL-V027FK*** Filter Kit		
Battery Pack	***BN-V408*** ***BN-V416*** 1600mAh ***BN-V428*** (High-Capacity) 2800mAh ***BN-V438*** (High-Capacity) 3800mAh	***BN-VF707*** †† 700mAh ***BN-VF714*** †† 1400mAh ***BN-VF733*** †† 3300mAh		
AC Power Adapter/Battery Charger	***AA-V40****	***AA-VF7***		
Lens	***GL-AW30*** Wide Conversion Lens** ***GL-AT30*** Tele Conversion Lens**	***V-27MCS*** Lens Protector	***GL-AW30*** Wide Conversion Lens ***GL-AT30*** Tele Conversion Lens	
DV Cable	***VC-VDV204/206***			
Card† (for models with DSC function)	***CU-ASD032/064*** SD Memory Card			
Bag/Pouch	***CB-V75*** ***CB-A78*** ***CB-V77*** ***CB-A79***			
	CB-A757	***CB-A80***		***CB-A757***

BN-VF707

BN-VF714

BN-VF733

VU-VCKIT1D

VU-A773KIT

CU-ASD064

CB-A78

CB-A79

* Only functions as a charger. For AC adapter function, use the adapter provided with the camera.
** On certain video cameras with built-in strobe, the lighting surface of the strobe is covered so strobe effects cannot be achieved for snapshots.
† GR-D270/GR-D295, GR-DF450/GR-DF550, GR-X5, GR-DZ7
†† This product includes patented and other proprietary technology and will operate only with JVC Data Battery.
For additional information about JVC Data Battery, please contact the JVC Company of America. For complete list of branches, please visit our website at http://www.jvc.com.

● ***Using optional accessories with the shoe for the DF camera series***
Before purchasing shoe-compatible accessories such as a microphone, be sure to check that they can be mounted on the shoe of the camera.
The size of the fixing ring for the shoe mounting is different depending on the accessory. Thus, certain accessories may not be used because they would come in contact with the body of the camera. A fixing ring diameter of less than 27 mm is usable.

Digital Video Camera Accessories Chart

		GR-D250	GR-D270	GR-D295	GR-DF430	GR-DF450	GR-DF550	GR-DZ7	GR-X5
Power Supply	AA-VF7	●	●	●	●	●	●		●
	AA-V40*							●	
	BN-VF707††	●	●	●	●	●	●		●
	BN-VF714††	●	●	●	●	●	●		●
	BN-VF733††	●	●	●	●	●	●		●
	BN-V408							●	
	BN-V416							●	
	BN-V428							●	
	BN-V438							●	
Add-ons	LN-KIT1D**	●	●	●					
	GL-AT30				●	●	●	●**	
	GL-AW30				●	●	●	●**	
	GL-V027FK	●	●	●					
	V-27MCS	●	●	●					
Multimedia	VC-VDV204/ VC-VDV206	●	●	●	●	●	●	●	●
	CU-ASD032 CU-ASD064		●	●		●	●	●	●
Portability	CB-V75	●	●	●	●	●	●	●	●
	CB-V77	●	●	●	●	●	●	●	●
	CB-A757							●	●
	CB-A78	●	●	●	●	●	●	●	●
	CB-A79	●	●	●	●	●	●	●	●
	CB-A80	●	●	●					
Convenient Kit	VU-VCKIT1D	●	●	●	●	●	●	●	●
	VU-A307KIT	●	●	●	●	●	●	●	●
	VU-AF70KIT	●	●	●	●	●	●		●
	VU-AF71KIT	●	●	●	●	●	●		●
	VU-A773KIT	●	●	●	●	●	●	●	●
	BT-V408K1							●	
	BT-A208K2							●	
	VU-A207KIT							●	
	VU-A208KIT							●	
	VU-A308KIT							●	
	VU-A316KIT							●	
	VU-A222KIT							●	
	VU-A228KIT							●	

* Only functions as a charger. For AC adapter function, use the adapter provided with the camera.

** On certain video cameras with built-in strobe, the lighting surface of the strobe is covered so strobe effects cannot be achieved for snapshots.

†† This product includes patented and other proprietary technology and will operate only with JVC Data Battery.
For additional information about JVC Data Battery, please contact the JVC Company of America. For complete list of branches, please visit our website at http://www.jvc.com.

Everio Digital Media Cameras

Model	GZ-MC500	GZ-MC200	GZ-MC100
Format	SD-VIDEO Entertainment Video Profile: Video: MPEG-2-PS / Audio: Dolby Digital Still: JPEG (PictBridge, DPOF compatible) Voice: WAV (Linear PCM)		
Storage Media	Microdrive®, CompactFlash card, SD Memory Card		
Image Sensor	1/4.5-inch 1.33 Megapixel (1363x975) CCD x 3	1/3.6-inch 2 Megapixel (1726x1231) CCD	
Effective Capture	Moving images: 2,073,600-pixel, 960x720 (691,200) x 3 Still images: 5 Megapixel (4,915,200 pixels) [(1280x960) x 4 with Pixel Shift]	Moving images: 1,228,800-pixel (1280x960) Still images: 2 Megapixel (1636x1220) (1,995,920 pixels)	
Effective Record	Moving images: NTSC (720x480) 4:2:0 Still images: Up to 2560x1920	Moving images: NTSC (720x480) 4:2:0 Still images: Up to 1600x1200	
Shutter Speed	1/2 – 1/4000 video, 1/2 – 1/500 still (*preliminary*)	1/2 – 1/4000 video, 1/2 – 1/500 still	
Lens	F1.8 – F2.4 (f=3.2 – 32mm) 35mm equiv. Normal Video: 46.2 – 462mm D.wide Video: 43 – 334mm (*preliminary*) 16:9 Video: 43 – 334mm (*preliminary*) Still: 43 – 334mm	F1.8 – F2.2 (f=4.5 – 45mm) 35mm equiv. Normal Video 48.7 – 487mm D.wide Video (x.8) 38.9 – 389mm Still 38.9 – 389mm	
Zoom Ratios	Optical: 10x (8x for still) Digital: 40x, 200x	Optical: 10x Digital: 40x, 200x	
Filter Diameter	37.0mm	30.5mm	
Monitor	130,000-pixel 1.8-inch polycrystalline silicon color LCD		
Interfaces	Microdrive® (CF) slot, SD Memory Card slot, USB2.0/1.1, AV/S-Video Multi-Connector Out, Headphone Out, DC In		
Power Consumption	Approx. 5.5W	Approx. 4.9W	
Power Source	(Battery) 7.2V / (AC adapter) 11V		
Dimensions (WxHxL)	3-1/5" x 2-1/5" x 4-7/10" (80 x 55 x 118mm) with Lens Hood Under 30 cubic inches (480 cubic centimeters)	3" x 2-1/4" x 3-3/4" (74 x 56 x 94mm) Under 25 cubic inches (400 cubic centimeters)	1-5/8" x 4-1/8" x 2-13/16" (40.5 x 103 x 70.5mm) Under 19 cubic inches (300 cubic centimeters)
Weight (without battery, Microdrive®, lens cap and hand strap)	0.73lbs (330g) with Lens Hood	0.63lbs (285g)	0.54lbs (245g)
Weight (including battery, Microdrive®, lens cap and hand strap)	0.89lbs (405g) with Lens Hood	0.78lbs (355g)	0.69 lbs (315g)

CU-VH1 High-Definition Portable Digital Player/Recorder

Model	CU-VH1			
Recording system	HDV, Mini DV format, HD Digital VCR Conference's Part 7 (DVB) and Part 8 (ATV) standards, DVC-SD, DVCATV/DVB compliant			
Cassette	MiniDV cassette, SP mode 80 min, LP mode 120 min. (80-minute tape)			
Digital/component	Format	i.LINK IEEE 1394	Component	S/Composite
Video format recording/playback	1280x720p /30 fps MPEG-2 HD 16:9	720p/29.97 Lines/actual fps	480p/59.94 480i/29.97 Playback only: 720p/60 fps HD only 1080i/30 fps	480i/29.97 16:9 or 4:3 Letterbox
	720x480p/60 fps MPEG-2 SD 16:9	480p/59.94		
	720x480i/30 fps DV 4:3 or (16:9)	480i/59.94 (16:9 is anamorphic "squeeze" only)		
	DV 4:3 D.Wide	480i/29.97 psf (Progressive segmented frame)		
HD/SD bit rate	19.7 Mbps Transport Stream (MTRM Standard compatible with D-VHS)			
Digital audio signal recording	HD, SD mode MPEG-1 Layer2 16-bit stereo, 384 kbps			
	DV mode PCM 16-bit 2 channels or 12-bit 4 channels			
Monitor	3.5" color LCD monitor (240,000-pixel polycrystalline silicon LCD)			
I/O terminals	i.LINK	4-pin (IEEE1394 conforming) S400		
	Component	Output Y: 1.0 V (p-p), 75Ω Pb/Pr 0.7V(p-p), 75 Ω		
	S	Y/C: Input Y: 0.8 V (p-p) –1.2 V (p-p), 75Ω C: 0.2 V (p-p) –0.4V(p-p), 75Ω Output Y: 1.0 V (p-p) 75 Ω, C: 0.29 V (p-p) 75 Ω		
	VIDEO	Composite: Input Y: 0.8 V (p-p) –1.2 V (p-p-), 75 Ω Output Y: 1.0 V (p-p) 75 Ω		
	AUDIO	Audio: Stereo Input: 300 mV (rms), 50 kΩ Stereo Output: 300 mV (rms), 1 kΩ		
	Headphones	φ3.5 mm mini-plug		
	USB	Mini-USB B-type (5-pin)		
	Stereo microphone	φ3.5 mm mini-plug (480 Ω (rms))		
	DC	JVC link cable		
Dimensions (W x H x D)	8-5/16" x 2-1/16" x 6-1/8" (221.0 x 52 x 155.4 mm)			
Weight	2.3 lbs. (1,005 g) main unit alone 2.6 lbs. (1,145 g) including battery pack, MiniDV cassette, memory card			
AC adapter power	AA-V40: 23 W, DC 6.3 V 1.8 A (VTR use), DC 7.2 V 1.2 A (charging battery pack) US/Canada AC 110 V 60 Hz, other countries AC 100–240 V 50/60 Hz			
VTR power consumption	HD/ SD mode: 6.9 W (using LCD monitor), DV mode: 6.3 W (using LCD monitor)			

GR-HD1 High-Definition Digital Media Camera

Model	GR-HD1				
Recording system	HDV, Mini DV format, HD Digital VCR Conferences Part 7 (DVB) and Part 8 (ATV) standards, DVC-SD, DVCATV/DVB compliant,				
Digital/component	Format	Hor./Vert. Res.	i.LINK IEEE 1394	Component	S/Composite
Video format recording/playback	1280x720p/ 30fps MPEG-2 HD 16:9	700/650 TV Line	720p/29.97 Lines/actual fps	480p/59.94 480i/29.97 Playback only: 720p/60 fps HD only 1080i/30fps	480i/29.97 (Anamorphic squeeze or Letterbox depending on component output)
	720x480p/ 60 fps MPEG-2 SD 16:9	400/480	480p/59.94		
	720x480i/ 30 fps DV 4:3 or (16:9)	540/360 (400/360)	480i/59.94 (16:9 is anamorphic squeeze only)		
	And DV4:3 D.Wide	540/360	480i/29.97 psf (Progressive segmented frame)		
HD/SD bit rate	19.7 Mbps Transport Stream (MTRM Standard compatible with D-VHS)				
Digital Audio signal recording	HD, SD mode MPEG-1 Layer2 16 bit Stereo, 384 kbps				
	DV mode PCM 16 bit 2 channels or 12 bit 4 channels				
Image sensor	1/3 inch 1.18 million-pixel progressive CCD				
Lens	F1.8–F1.9, f = 5.2 mm – 52 mm	when compared to a 35 mm still camera: 40.3 mm – 403 mm in 16:9 HD mode 55.0 mm – 550 mm in 16:9 SD mode and 16:9 DV Anamorphic mode 67.8 mm – 678 mm in 4:3 DV mode 47.7 mm – 477 mm in 4:3 DV D.Wide mode 37.1 mm – 371 mm in 4:3 Digital Still memory mode			
	Filter Diameter	52 mm			
Zoom magnification	10x optical zoom, SD/DV 40x and 200x digital zoom				
Monitor	3.5 color LCD monitor (200,000-pixel polycrystalline silicon LCD)				
Viewfinder	0.44 color LCD viewfinder (113,000-pixel polycrystalline silicon LCD)				
I/O terminals	i.LINK	4pin (IEEE1394 conforming) S400			
	Multipin	Y/C:	Input Y: 0.8 V (p-p)–1.2 V (p-p), 75 Ω C: 0.2 V (p-p) – 0.4 V (p-p), 75 Ω Output Y: 1.0 V (p-p) 75 Ω C:0.29 V (p-p), 75 Ω		
		Composite	Input Y: 0.8 V (p-p)–1.2 V (p-p), 75 Ω Output Y: 1.0 V (p-p) 75 Ω		
		Audio	Stereo Input: 300 mV (rms), 50 kΩ Stereo Output: 300 mV (rms), 1 kΩ		
		Editing Control			
	Headphone	φ3.5 mm Mini-plug			
	USB	Mini-USB B-type (5-pin)			
	Component	Analog Output Y: 1.0 V (p-p) 75 Ω Pb: 0.7 V (p-p), 75 Ω Pr: 0.7 V (p-p), 75 Ω			
	Stereo Microphone	φ3.5 mm Mini-plug (480 μ (rms))			
	DC	JVC link cable			
Dimensions (W x H x D)	4-9/16" x 3-15/16" x 10-3/4" (114.5 x 99 x 271.5 mm) Including maximum protrusion, but with LCD closed and Viewfinder pushed in				
Weight	Main unit alone: 2.8 lbs. (1,270 g) During shooting operation: 3.3 lbs. (1,490 g) including Battery Pack, MiniDV Cassette, Memory card				
Power source	DC 6.3 V (using AC Adapter), DC 7.2 V (using Battery Pack)				
Power consumption	HD/ SD mode 8.0 W (using viewfinder), 9.7 W (using LCD monitor) DV mode 6.8 W (using viewfinder), 8.5 W (using LCD monitor)				

System Requirements

Everio

Microsoft® Windows® ME/2000 Professional/XP Home Edition/XP Professional (Pre-Installed)
Intel® MMX™Pentium® 200MHz or higher
64MB RAM or higher

[CyberLink DVD Solution]

Intel® Pentium® 700MHz or higher (Pentium® 2GHz or higher recommended)
128MB RAM or higher (256MB RAM or higher recommended)
Everio and the provided software are not compatible with Macintosh computers

GR-HD1

Windows®

OS: Microsoft® Windows® XP Home Edition/Professional (Pre-install version)
CPU: Intel® Pentium®4 2GHz or above
RAM: 256MB or above for DDR SDRAM or DRD RAM,
384MB or above when taking video memory from RAM (Both 512MB or above recommended)
Terminal: IEEE1394 (i.LINK) terminal and USB terminal (Standard equipment)
Displays: 1024 x 768 or above
Video memory: 32MB or above
Hard Disk: Ultra ATA/100 (7200rpm or above recommended)
Other: CD-ROM drive (For installation)
When making DVD Video discs, using ImageMixer DVD
Recordable DVD drive that PIXELA Corporation supports is necessary. *
DVD-RAM media cannot be supported by ImageMixer DVD.

**Information about compatible drives will be provided at the web site of PIXELA Corporation, etc.*

[When installing MPEG Edit Studio™ Pro 1.0 LE]

HDD unused space: Approx. 50MB or above necessary (Just for installation)

[When installing ImageMixer DVD]

HDD unused space: Approx. 120MB or above necessary (Just for installation)

Macintosh

This software is incompatible with Macintosh

Digital Video Cameras

Model	GR-DZ7	GR-X5	GR-DF550	GR-DF450	GR-DF430
SYSTEM					
Format	MiniDV	MiniDV	MiniDV	MiniDV	MiniDV
CAMERA					
CCD	1/3.6	1/4.5" 3-CCD	1/4.5"	1/6"	1/6"
No. of CCD Pixels	2,120,000	1,330,000 x 3	1,330,000	680,000	680,000
Effective pixels Moving pictures	1,230,000	690,000	690,000	340,000	340,000
Stills	2,000,000	1,230,000	1,000,000	340,000	
Horizontal Resolution	540 Lines	540 Lines	540 Lines	520 Lines	520 Lines
Lens F1.2 Super Bright Lens			●	●	●
Newly Developed High Precision Lens	●	●			
Zoom Ratio (Optical)	10x	10x (Still: 8x)	15x	15x	15x
Zoom Ratio Digital (max.)	300x	300x	700x	700x	700x
Focal Length (mm)	4.5 - 45.0	3.2 - 32.0 (Still: 4.0 - 32.0)	3.0 - 45.0	2.6 - 39.0	2.6 - 39.0
F Stop	F1.8 - 2.2	F1.8 - 2.4	F1.2 - 2.8	F1.2 - 2.8	F1.2 - 2.8
Auto Macro	●	●	●	●	●
Filter Diameter (mm)	30.5	37	30.5	30.5	30.5
Auto Iris	●	●	●	●	●
Shutter Speeds	1/60 - 1/4000	1/60 - 1/4000	1/60 - 1/4000	1/60 - 1/4000	1/60 - 1/4000
Full Range AF/Manual Focus	●	●	●	●	●
Full-Auto/Manual White Balance	●	●	●	●	●
HG Digital Still (Progressive Shutter)	●	●	●	●	
RECORDER					
Megabrid Engine	●	●	●		
3-Dimension Noise Reduction (3D NR)	●	●	●	●	●
Super High-Band Processor	●	●	●	●	●
Recording Time (max.)	120 min. (*)	120 min. (*)	120 min. (*)	120 min. (*)	120 min. (*)
Random Assembling Editing	● [3]				
Audio Dubbing	● [1]				
PC-RELATED FUNCTIONS					
USB Video Class	●				
USB Mass Storage Class	●	●	●	●	
DVD Creation	●	● (via IEEE 1394)			
Video CD Creation	●	● (via IEEE 1394)			
Email Video Clips	●		●	●	
Web-Camera Function (via IEEE 1394)	●	●	●	●	●
Digital Still Capture	●	● (via IEEE 1394)	●	●	
DV Navigation	●		●	●	
LCD/SCREEN					
Clear LCD Monitor	● (2.5")		● (2.5")	● (2.5")	● (2.5")
Dynamic Backlight LCD Monitor		● (2.5")			
Color Viewfinder	●		●	●	●
FUNCTIONS					
Live Slow			●	●	
Data Battery		●	●	●	●
Multi-Language On-Screen		●	●	●	-/2-Language
NightAlive	●	●	●	●	●
Auto Illumi. Light			●	●	●
Auto Flash	●	●			
DSC/Still Image Size (Max.)	●/1600 x 1200	●/2560 x 1920	●/1600 x 1200	●/1024 x 768	
Interval Snapshot	●	●	●	●	
Movable Spotlight/Backlight Compensation	●	●	●	●	●
Power-Linked Operation	●	●	●	●	●
Animation	●	●	●	●	●
Self-Timer	●	●			
Program AE/Digital Effects	●	● [2]	● [2]	● [2]	● [2]
Scene Transition (Wipes/Fades)	●	●	●	●	●
Playback Digital Zoom	● [5]	● [5]	● [5]	● [5]	● [5]
PictBridge		●			
Shoe		●	●	●	●
CONNECTORS					
DV Input/Output (IEEE 1394 compliant)	●/●	●/●	●/●	●/●	●/●
USB Terminal	●	●	●	●	
S-Video Input/Output			●/●	●/●	●/●
AV Input/Output			●/●	●/●	●/●
S-AV Input/Output	●	●			
Mic Input (plug-in power)		●	●	●	●
Analog Input	●	●	●	●	●
GENERAL					
Approx. Weight	1.2 lbs. (560 g)	1.1 lbs. (510 g)	0.9 lbs. (410 g)	0.9 lbs. (400 g)	0.9 lbs. (400 g)
Dimensions (W x H x D)	2-1/2" x 4"x 4-9/16" (62 x 101 x 115 mm)	3-1/2" x 3-9/16"x 3-11/16" (88 x 89 x 93 mm)	3" x 2-15/16"x 4-3/8" (75 x 74 x 111 mm)	3" x 2-15/16"x 4-3/8" (75 x 74 x 111 mm)	3" x 2-15/16"x 4-3/8" (75 x 74 x 111 mm)
PROVIDED ACCESSORIES					
AC Adapter	●	●	●	●	●
Battery Pack	●	●	●	●	●
Shoulder Strap	●	●	●	●	●
Remote Control	● (RM-V720)	● (RM-V720)	● (RM-V720)	● (RM-V720)	● (RM-V720)
Memory Card	SD (8MB)	SD (8MB)			
USB Cable	●	●	●	●	
AV Cable			●	●	●
S/AV Cable		●			
S/AV Editing Cable	●				
Software Digital Photo Navigator (Win)	●	●	●	●	
USB Driver MSC (Win)	●	●	●	●	
PowerDirector 3 DE (Win)		●			
PowerProducer 2 Gold DVD (Win)		●			
ImageMixer 2.0	●				

[1] SP mode only. [2] Applicable during playback also. Certain effects may not available. [3] Using optional Multi-Brand Remote. [4] Using optional remote. [5] Using provided/optional remote.
* with 80-min. DV cassette
All weights and dimensions exclude battery, cassette, hand strap and other attachments unless stated otherwise.

Digital Video Cameras

Model	GR-D295	GR-D270	GR-D250
SYSTEM			
Format	MiniDV	MiniDV	MiniDV
CAMERA			
CCD	1/6"	1/6"	1/6"
No. of CCD Pixels	680,000	680,000	680,000
Effective pixels Moving pictures	340,000	340,000	340,000
Stills	340,000	340,000	
Horizontal Resolution	520 Lines	520 Lines	520 Lines
Lens Zoom Ratio (Optical)	25x	25x	25x
Zoom Ratio Digital (max.)	800x	800x	800x
Focal Length (mm)	2.2 - 55.0	2.2 - 55.0	2.2 - 55.0
F Stop	F1.8 - 3.2	F1.8 - 3.2	F1.8 - 3.2
Auto Macro	●	●	●
Filter Diameter (mm)	27	27	27
Auto Iris	●	●	●
Shutter Speeds	1/60 - 1/4000	1/60 - 1/4000	1/60 - 1/4000
Full Range AF/Manual Focus	●	●	●
Full-Auto/Manual White Balance	●	●	●
HG Digital Still (Progressive Shutter)	●	●	
RECORDER			
Super High-Band Processor	●	●	●
Recording Time (max.)	120 min. (*)	120 min. (*)	120 min. (*)
Audio Dubbing	● [1]	● [4]	● [4]
PC-RELATED FUNCTIONS			
USB Mass Storage Class	●	●	
Web-Camera Function (via IEEE 1394)	●	●	●
Digital Still Capture	●	●	
LCD/SCREEN			
Clear LCD Monitor	● (2.5")	● (2.5")	● (2.5")
Color Viewfinder	●	●	●
FUNCTIONS			
Live Slow	●	●	
Data Battery	●	●	●
Multi-Language On-Screen	●	●	-/2-Language
NightAlive	●	●	●
Auto Illumi. Light	●	●	
DSC/Still Image Size (Max.)	●/1024 x 768	●/1024 x 768	
Interval Snapshot	●	●	
Movable Spotlight/Backlight Compensation	●	●	●
Power-Linked Operation	●	●	●
Animation	●	●	●
Program AE/Digital Effects	● [2]	● [2]	● [2]
Scene Transition (Wipes/Fades)	●	●	●
Playback Digital Zoom	● [5]	● [5]	● [5]
CONNECTORS			
DV Input/Output (IEEE 1394 compliant)	●/●	●/●	●/●
USB Terminal	●	●	
AV Input/Output	●/●	●/●	●/●
GENERAL			
Approx. Weight	0.9 lbs. (430 g)	0.9 lbs. (430 g)	0.9 lbs. (430 g)
Dimensions (W x H x D)	2-1/4" x 3-3/4" x 4-7/16" (56 x 94 x 112 mm)	2-1/4" x 3-3/4" x 4-7/16" (56 x 94 x 112 mm)	2-1/4" x 3-3/4" x 4-7/16" (56 x 94 x 112 mm)
PROVIDED ACCESSORIES			
AC Adapter	●	●	●
Battery Pack	● (2 Packs)	●	●
Shoulder Strap	●	●	●
Remote Control	● (RM-V720)		
USB Cable	●	●	
AV Cable	●	●	●
Software Digital Photo Navigator (Win)	●	●	
USB Driver MSC (Win)	●	●	

[1] SP mode only. [2] Applicable during playback also. Certain effects may not available. [3] Using optional Multi-Brand Remote. [4] Using optional remote.
[5] Using provided/optional remote.
* with 80-min. DV cassette
All weights and dimensions exclude battery, cassette, hand strap and other attachments unless stated otherwise.

Compact VHS Camcorders

Model	GR-SXM37	GR-AXM17
SYSTEM		
Format	S-VHS-C	VHS-C
Super VHS/Super VHS ET	●	
Flying Erase Head	●	●
CAMERA		
CCD	1/6"	1/6"
No. of CCD Pixels	320,000	320,000
Full Range AF/Manual Focus	●/●	●/●
Lens Zoom Ratio (Optical)	25x	20x
Zoom Ratio Digital (max.)	1000x	800x
Focal Length (mm)	2.2 - 55.0	2.2 - 44.0
F Stop	F1.8 - F3.0	F1.8 - F3.0
Filter Diameter (mm)	30.5	30.5
Digital Advantage Super High-Band Processor	●	
Digital TBC/Digital CNR	●/●	●/●
Picture Stabilizer	●	●
LCD/SCREEN		
LCD Color Monitor	2.5"	2.5"
Viewfinder	B/W	B/W
FUNCTIONS		
Program AE	●	●
Digital Effects	●	●
Digital Wipes/Fades	●/●	●/●
Instant Titles	● (4 Languages)	● (4 Languages)
Auto Illumi. Light	●	
CONNECTORS		
S-Video Output/AV Output	●/●	-/●
GENERAL		
Approx. Weight	1.70 lbs. (770 g)	1.70 lbs. (770 g)
Dimensions (W x H x D)	3-1/4" x 4-15/16" x 8-9/16" (81 x 125 x 216 mm)	3-1/4" x 4-15/16" x 8-9/16" (81 x 125 x 216 mm)
PROVIDED ACCESSORIES		
Cassette Adapter	●	
AC Adapter	●	●
Battery Pack	●	●
Shoulder Strap	●	●
AV Cable		●

All weights and dimensions exclude battery, cassette, hand strap and other attachments unless stated otherwise.

System Requirements

GR-DZ7

Windows® OS

Windows® 98/98SE/Me/2000 Professional/XP Home Edition/XP Professional (pre-installed)
[ImageMixer] DV is not available with Windows®98/98SE, USB2.0 is available to input DV pictures in Windows®XP.

Macintosh OS

Mac OS 9.0.4 to 9.2.2, Mac OS X (10.1.5, 10.2.1 to 10.2.8, 10.3.1)
[ImageMixer] Mac OS 9.0.4 to 9.2.2, Mac OS X (10.2.4 to 10.2.8, 10.3.1)

IMPORTANT NOTICE REGARDING USB INTERFACE

For USB2.0 Terminal

- USB Mass Storage Class is compatible with Windows® XP, and partially compatible with Windows® 2000 and MacOSX.
- USB Video Class DV Streaming is compatible with Windows® XP Service Pack1 or later.
- USB Video Class DV Streaming is supported using supplied ImageMixer2.0 software.

For USB1.1 Terminal

- l USB Mass Storage Class is compatible with Windows® XP, 2000, Me, 98SE*, 98*, and partially compatible with MacOSX and MacOS9.
  **Supplied driver is required.*
- USB Video Class DV Streaming is not supported

Note:
GR-DZ7 does not have USB Video Streaming (MPEG-1, YUV) function.

GR-X5/GR-DF550/GR-DF450/GR-D295/GR-D270

Windows® OS

Windows® 98SE/Me/2000 Professional/XP Home Edition/XP Professional (pre-installed)

Macintosh OS

Mac OS 9.0.4 to 9.2.2, Mac OS X (10.1.5, 10.2.1 to 10.2.8, 10.3.1 to 10.3.5)

Notes:

- May not work correctly depending on the PC environment.
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- Intel®, Pentium® are registered trademarks of Intel Corporation.
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